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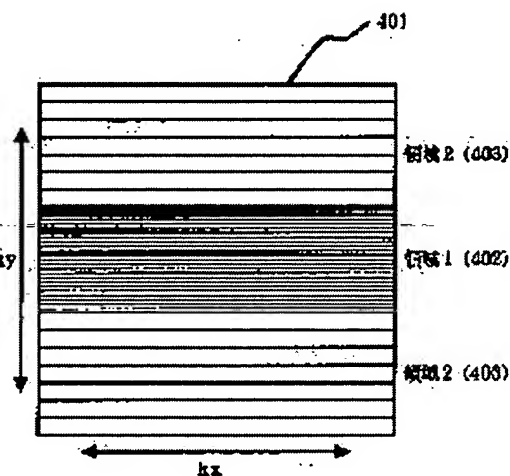
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(54) MAGNETIC RESONANCE IMAGING SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To make a parallel magnetic resonance imaging applicable to imaging with a motion and to provide an image without degradation for diagnosis at a high speed.

SOLUTION: More than one receiving coil is used for an MRI(magnetic resonance imaging system). The receiving coil has an area for measuring sensitivity partly overlapping spatially and separated from each other. The MRI is controlled in the way that imaging is done with a part of the measured data thinned out to make an area 1 for low frequency of the space k dense and an area 2 for high frequency thin. An image including a moire is obtained when this measured data are reconstituted by using general multidimensional Fourier transform. The moire is eliminated and an image with a high resolution is obtained by forming a signal using a substantial sensibility distribution of each of receiving RF coil calculated based on a part of the area 1 and the measured data.



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